

Object Management Group, Inc.  
250 First Ave. Suite 100  
Needham, MA 02494, U.S.A.



Ph: +1-781-444 0404  
Fax: +1-781-444 0320  
Email: [info@omg.org](mailto:info@omg.org)

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## Catalog Of OMG CORBA®/IIOP® Specifications

This page provides a catalog of OMG CORBA/IIOP specifications. Specifications are listed alphabetically.

### Description Of Catalog Entries

Click [here](#) for a description of each field for specifications catalogued below.

### Understanding Terms Used

In order to understand the various terms used to identify an OMG specification as it moves through its editing cycles, consult the [OMG Specifications Tutorial](#).

<b>Specification Name:</b>	<b>Common Object Request Broker Architecture (CORBA/IIOP)</b>		
<b>Description:</b>	Specification of an architecture for middleware technology called an Object Request Broker that provides interoperability among clients and servers distributed over a heterogeneous environment.		
<b>Keywords:</b>	asynchronous, callback, COM, context, CORBA, dynamic invocation, dynamic skeleton, fault tolerance, identity, IDL, implementation repository, interceptors, interface, interface repository, interoperability, language binding, messaging, object adapter, object reference, operation, OR, ORB, policy domains, policy object, portable interceptors, portable object adapter, QoS, router administration, routing, security, skeleton, static invocation, thread, ValueBase		
<b>Latest / past specifications:</b>	Current version: <a href="#">3.0.2</a>		Past versions
<b>Revision Information:</b>	Status: 3.1 revision started	Working Documents: <a href="#">Core Draft Chapters</a>	Contact: <a href="#">CORBA Core RTF</a>
<b>Related OMG Specifications:</b>	<a href="#">CORBA Component Model</a> , <a href="#">Fault Tolerance</a> , <a href="#">Firewall Security</a> , <a href="#">Interoperability</a> , <a href="#">Portable Interceptors</a> , <a href="#">Security</a>		
<b>Related Industry Standards:</b>			

<b>Specification Name:</b>	<b>Common Secure Interoperability (CSIv2)</b>		
<b>Description:</b>	Addresses the requirements of CORBA security for interoperable authentication, delegation, and privileges.		
<b>Keywords:</b>	authentication, authorization, confidentiality, delegation, privilege, SAS, security, session, transport		
<b>Latest / past specifications:</b>	Current version: Chapter 24 of <a href="#">CORBA/IIOP 3.0.2</a>		Past version: Chapter 26 of <a href="#">CORBA/IIOP 2.6</a>
<b>Contact Information:</b>	<a href="#">Information and Security Assurance PSIG</a>		
<b>Related OMG Specifications:</b>	<a href="#">ATLAS</a> , <a href="#">CORBA/IIOP</a> , <a href="#">Time Service</a>		
<b>Related Industry Standards:</b>	IETF ID PKIXAC, IETF RFC 2246, IETF RFC 2459, IETF RFC 2743, X.501-93		

<b>Specification Name:</b>	<b>CORBA Component Model</b>		
	Specification of: a Component Implementation Definition Language (CIDL); the semantics of the CORBA Components Model (CCM); a Component Implementation Framework (CIF), which defines the		

<b>Description:</b>	programming model for constructing component implementations; a container programming model describing how an Enterprise JavaBeans (EJB) component can be used by CORBA clients, including CORBA components; an architecture of the component container as seen by the container provider; how Component implementations may be packaged and deployed; and definitions of the XML DTDs used by the CORBA Components.		
<b>Keywords:</b>	CCM, CIDL, CIF, Component Implementation Definition Language, component model, Component Implementation Framework, container architecture, deployment, DTD, EJB, locality, packaging, policy, XML		
<b>Latest / past specifications:</b>	Current version: <u>3.0</u>	Past versions: n/a. [NOTE: Versioning originally started at 3.0 to denote conformance to V3.0 CORBA/IIOP.]	
<b>Revision Information:</b>	Status: 1.2 revision underway	Working Documents: <u>Proposed 1.1 Specification</u>	Contact: <u>Components 1.2 RTE</u>
<b>Related OMG Specifications:</b>	CORBA/IIOP, <u>Deployment and Configuration</u> , <u>Lightweight CCM</u> , <u>UML Profile for CCM</u>		
<b>Related Industry Standards:</b>	<u>Enterprise JavaBeans</u>		

<b>Specification Name:</b>	<b>CORBA-FTAM/FTP Interworking</b>		
<b>Description:</b>	Describes a single set of interfaces that will allow any Operations Support System (OSS) to perform its file management operations on underlying Network Elements regardless of the type of file management mechanism the underlying node is using.		
<b>Keywords:</b>	File Transfer Client; File Transfer Server; FTAM; FTP; Network Element; OSS		
<b>Latest / past specifications:</b>	Current version: <u>1.0</u>		Past versions: n/a
<b>Contact Information:</b>	<u>Telecommunications</u> <u>PSIG</u>		
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u> , <u>Property Service</u>		
<b>Related Industry Standards:</b>	IETF RFC 959; IETF RFC 1415		

<b>Specification Name:</b>	<b>CORBA / TC Interworking and SCCP-Inter ORB Protocol</b>		
<b>Description:</b>	This specification addresses the interworking between CORBA-based Intelligent Network (IN) applications and the same applications implemented using the existing IN infrastructure.		
<b>Keywords:</b>	GIOP, GSM, INAP, MAP, MTP, network, remote operations, OSI ROS, SCP, signal, SSP, SS7, switching, Transaction Capabilities, Transaction sub-layer		
<b>Latest / past specifications:</b>	Current version: <u>1.0</u>		Past versions: n/a
<b>Contact Information:</b>	<u>Telecommunications PSIG</u>		
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u> , <u>Life Cycle Service</u> , <u>Naming Service</u>		
<b>Related Industry Standards:</b>	ITU-T Rec. Q.1400;ITU-T Rec. Q.1218; ITU-T Rec. Q.771-5; ITU-T Rec. X.680 through 683 (1994)   ISO/IEC 8824-1/2/3/4:1995; ETSI, ETS 300 374-1; ITU-T Rec. X.880 (1994); ITU-T Rec. Q.71		

<b>Specification Name:</b>	<b>CORBA-WSDL/SOAP Interworking</b>		
<b>Description:</b>	The overall goal of this specification is to provide a natural mapping from IDL to WSDL that is also suitable for a reverse mapping, from the mapped subset of WSDL back to IDL.		
<b>Keywords:</b>	constructed types, IDL source, interfaces, modules, object references, primitive types, service endpoints, SOAP bindings, value type		
<b>Latest / past specifications:</b>	Current version: <u>1.1</u>		Past versions: <u>1.0</u>
<b>Contact Information:</b>	<u>Middleware and Related Services PTF</u>		
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP, WSDL/SOAP-CORBA Interworking</u>		
<b>Related Industry Standards:</b>	<u>JAX-RPC, W3C SOAP 1.1, W3C WSDL 1.1, W3C XSD</u>		

<b>Specification Name:</b>	<b>Deployment and Configuration of Component-based Distributed Applications</b>		
<b>Description:</b>	<p>This specification provides middleware mechanisms, methods, and notations for comprehensive automated deployment and configuration support for component-based distributed applications. In particular:</p> <ul style="list-style-type: none"> <li>• Methods and notations for the description of the network topologies, capabilities and properties of heterogeneous distributed processing environments (DPE) for distributed applications.</li> <li>• Methods and notations for the specification of configuration and deployment strategies for the deployment process of distributed applications.</li> <li>• Specification of interfaces, and middleware mechanisms and services necessary for automated support for the entire deployment process of distributed applications and their configuration management.</li> </ul>		
<b>Keywords:</b>	actor, CCM, component data, component development, component management, configuration, deployment, distributed processing environments (DPE), execution data, execution management, IDL, MDA, metadata, package, PIM, profile, PSM, target data, target management, XML Schema		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 adopted	Working Document: <u>Proposed Available Specification</u>	Contact: <u>Middleware and Related Services PTF</u>
<b>Related OMG Specifications:</b>	<u>CORBA Component Model</u> , <u>UML</u> , <u>Property Service</u>		
<b>Related Industry Standards:</b>	<p>"Open distributed processing - Reference Model: Overview" (ITU-T X.901); "Open distributed processing - Reference Model: Foundations" (ITU-T X.902); "Open distributed processing - Reference Model: Architecture" (ITU-T X.903); "Open distributed processing - Reference Model: Architectural semantics" (ITU-T X.904)</p>		

  

<b>Specification Name:</b>	<b>Extensible Transport Framework</b>		
<b>Description:</b>	This specification describes a framework to enable third parties to design and implement a "Transport Plug-in" that can exchange messages (e.g., GIOP) between server and clients over a non-TCP transport layer.		
<b>Keywords:</b>	connection, factory, GIOP, handle, interface, listener, profile, TCP		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 finalization underway	Working Document: <u>Final Adopted Specification</u>	Contact: <u>Extensible Frameworks FTF</u>
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u>		
<b>Related Industry Standards:</b>			

  

<b>Specification Name:</b>	<b>Fault Tolerance</b>		
<b>Description:</b>	Provides robust support for applications that require a high level of reliability, including applications that require more reliability than can be provided by a single backup server. The standard requires that there shall be no single point of failure.		
<b>Keywords:</b>	causal order, fault management, fault tolerance, logging and recovery management, multicasting, replication management, virtual synchrony		
<b>Latest / past specifications:</b>	Current version: Chapter 23 of <u>CORBA/IIOP 3.0.2</u>		Past version: Chapter 25 of <u>CORBA/IIOP 2.5</u>
<b>Contact Information:</b>	<u>Real-Time PTF</u>		
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u> , <u>Event Service</u> , <u>Naming Service</u> , <u>Notification Service</u> , <u>Time Service</u>		
<b>Related Industry Standards:</b>			

  

<b>Specification Name:</b>	<b>Firewall Traversal</b>		
<b>Description:</b>	Specifies the changes to CORBA that are needed for ORBs to function in a slightly different manner, so that CORBA communication can more easily be handled by firewalls. An additional goal is to provide information on how current firewall techniques can be used to control CORBA communication.		

<b>Keywords:</b>	bi-directional, credentials, GIOP, firewall, POA, proxy, SOCKS, SSL, TCP, traversal algorithm		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 finalization underway	Working Document: <u>Final Adopted Specification</u>	Contact: <u>CORBA Firewall Traversal FTF</u>
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u>		
<b>Related Industry Standards:</b>			

<b>Specification Name:</b>	<b>GIOP SCTP Protocol Mapping</b>		
<b>Description:</b>	Specifies a GIOP mapping onto SCTP and an IOR profile for SCTP using IPv6. This is called SCIOP. Also addresses interoperability between IIOP and SCIOP.		
<b>Keywords:</b>	associations, GIOP, IOR, messages, profile, protocol, QoS, SCTP, transport		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 finalization underway	Working Document: <u>Draft Adopted Specification</u>	Contact: <u>GIOP SCTP FTF</u>
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP</u>		
<b>Related Industry Standards:</b>			

<b>Specification Name:</b>	<b>GIOP Tunneling over Bluetooth</b>		
<b>Description:</b>	Wireless CORBA specifies the architecture and methods how CORBA can be used over wireless links. Wireless CORBA specifies a tunneling protocol that encapsulates and "decapsulates" GIOP messages over the real transport protocol on the wireless media. The GIOP Tunneling Protocol (GTP) is an abstract, transport-independent protocol. It defines the message formats for transmitting GIOP messages and for establishing, releasing, and re-establishing the tunnel. Since GTP is an abstract protocol, it needs to be mapped onto a concrete protocol. Bluetooth technology is expected to be very widely used short-range radio communication technology in the future. This specification extends the Wireless Access and Terminal Mobility in CORBA Specification (Wireless CORBA) by specifying how GTP messages are transmitted over Bluetooth technology.		
<b>Keywords:</b>	baseband, Big-Endian, channel, connection-oriented data services, fragmentation, GIOP, GTP, Host Controller Interface (HCI), L2CAP, message delivery, multiplexing, packet, protocol, transport, tunneling, wireless		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 adopted	Working Document: <u>Proposed Available Specification</u>	Contact: <u>Telecommunications PSIG</u>
<b>Related OMG Specifications:</b>	<u>Wireless Access and Terminal Mobility in CORBA</u>		
<b>Related Industry Standards:</b>	Specification of the Bluetooth System - Version 1.1, Volume 1 & 2, <u>GIOP Tunneling over Bluetooth L2CAP</u>		

<b>Specification Name:</b>	<b>Interworking between CORBA and TMN Systems</b>		
<b>Description:</b>	Standard interfaces supporting the interworking between telecommunications management systems based on different technologies.		
<b>Keywords:</b>	ASNI, caching, CMIP, CMIS, collections, gateways, OSI, SNMP, systems management, TMN		
<b>Latest / past specifications:</b>	Current version: <u>1.0</u>		Past versions: n/a
<b>Contact Information:</b>	<u>Telecommunications PSIG</u>		
<b>Related OMG Specifications:</b>	<u>CORBA/IIOP, Event Service, Life Cycle Service, Naming Service</u>		
<b>Related Industry Standards:</b>	X/Open guide number G207; ITU-T (CCITT) Recommendations: X.701, X.710, X.720, X.721, X.722, X.734, X.735, X.208, M.3010		

<b>Specification Name:</b>	<b>Online Upgrades</b>		
	Online Upgrades facilitates the safe and orderly upgrading of objects in a manner that is portable across systems and that is interoperable between systems. It is a first step towards a more general online upgrade capability. The specification aims to provide the ability to: <ul style="list-style-type: none"> <li>• Upgrade individual objects, where such</li> </ul>		

<b>Description:</b>	upgrades change the implementation of the object but do not change the external interfaces of the object • Pause an object, so that it can be upgraded, while allowing the object the opportunity to reach a safe and quiescent state • Transfer state from an instance of the old implementation of the object to an instance of the new implementation of the object, with provision for such state transfers where the representations of the old state and the new state are different • Resume service using an instance of the new implementation of the object without risk that messages will be lost, misordered or processed twice • Allow client objects to continue to use a server object while remaining unaware that the server has been upgraded, and allow server objects to continue to serve a middle-tier client object that also acts as a server while remaining unaware that the client has been upgraded • Address objects in such a way that a client can continue to use its existing object reference to access a server after it has been upgraded • Rollback an upgrade, prior to the instance of the new implementation becoming operational, if some part of the upgrade fails • Revert from an instance of the new implementation to an instance of the old implementation, if operation with the instance of the new implementation proves to be unsatisfactory • Perform upgrades on small collections of objects by means of allowing the application to commit and rollback the upgrades explicitly.		
<b>Keywords:</b>	commit, group management, implementation, object references, object state, portability, pause, pulled upgrade, pushed upgrade, resume, revert, rollback		
<b>Latest / past specifications:</b>	Current version: n/a		Past versions: n/a
<b>Finalization Information:</b>	Status: 1.0 adopted	Working Document: <u>Proposed Available Specification</u>	Contact: <u>Middleware and Related Services PTF</u>
<b>Related OMG Specifications:</b>	CORBA/IIOP, Real-time CORBA		
<b>OMG Cross Reference:</b>	Specialized CORBA Specifications		
<b>Related Industry Standards:</b>			

<b>Specification Name:</b>	Wireless Access and Terminal Mobility in CORBA		
<b>Description:</b>	Specifies an architecture and interfaces to support wireless access and terminal mobility in CORBA.		
<b>Keywords:</b>	access bridge, discovery, handoff, home location agent, messaging, mobile, terminal bridge, tunneling protocol		
<b>Latest / past specifications:</b>	Current version: <u>1.1</u>		Past versions
<b>Revision Information:</b>	Status: 1.2 adopted	Working Document: <u>Proposed Available Revision</u>	Contact: <u>Telecommunications PSIG</u>
<b>Related OMG Specifications:</b>	CORBA/IIOP, GIOP Tunneling over Bluetooth		
<b>Related Industry Standards:</b>	WAP-188-WAPGenFormats, Version 15-Aug-2000; WAP-201-WDP, Approved Version 19-February-2000		

<b>Specification Name:</b>	WSDL/SOAP-CORBA Interworking		
<b>Description:</b>	This specification defines a mapping between WSDL specifications, with a SOAP Binding, to a corresponding set of OMG IDL interface specifications. This specification is applicable to the domain of WSDL specifications which use only the constructs which result from the CORBA to WSDL-SOAP specification. This simplifies the mapping, and allows for mapping from a restricted WSDL-SOAP subset to CORBA IDL interfaces. This specification assumes that the CORBA to WSDL-SOAP mapping includes an identifier for the source OMG IDL file in the resulting WSDL specification. The WSDL to IDL translator can key off this identifier to revert to the original IDL specification, rather than performing the translation algorithm specified in this specification..		
<b>Keywords:</b>	constructed types, IDL source, interfaces, modules, object references, primitive types, service endpoints, SOAP bindings, value type		
<b>Latest / past specifications:</b>	Current version: <u>1.0</u>		Past versions: n/a
<b>Contact Information:</b>	<u>Middleware and Related Services PTF</u>		
<b>Related OMG Specifications:</b>	CORBA/IIOP, CORBA-WSDL/SOAP Interworking, Java to IDL Mapping		
<b>Related Industry Standards:</b>	JAX-RPC, W3C SOAP 1.1, W3C WSDL 1.1, W3C XSD		

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